STATE UNIVERSITY OF NEW YORK
COLLEGE OF TECHNOLOGY
CANTON, NEW YORK

COURSE OUTLINE

CITA 460 - INFORMATION TECHNOLOGY AND NETWORKED ECONOMY

Revised By: MINHUA WANG

CANINO SCHOOL OF ENGINEERING TECHNOLOGY
INFORMATION TECHNOLOGY
May 2015
A. **TITLE:** Information Technology and Networked Economy

B. **COURSE NUMBER:** CITA 460

C. **CREDIT HOURS:** 3

D. **WRITING INTENSIVE COURSE:** No

E. **COURSE LENGTH:** 15 weeks

F. **SEMESTER(S) OFFERED:** Fall

G. **HOURS OF LECTURE, LABORATORY, RECITATION, TUTORIAL, ACTIVITY:**
   3 lecture hours per week

H. **CATALOGUE DESCRIPTION:** This course examines the fundamental concepts and components of Information Technology from both managerial and professional end user perspective. The course also explores the foundations of information systems to the demands of electronic commerce, connectivity, and networked economy.

I. **PRE-REQUISITES/CO-REQUISITES:**
   a. Pre-requisite(s): Senior status in a 4-year program
   b. Co-requisite(s): none

J. **GOALS (STUDENT LEARNING OUTCOMES):**
   By the end of this course, the student will be able to:

<table>
<thead>
<tr>
<th>Course Objective</th>
<th>Institutional SLO</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Specify fundamental concepts and components of Information Technology from</td>
<td>1. Communication</td>
</tr>
<tr>
<td>both managerial and professional end user perspective</td>
<td>2. Crit. Thinking</td>
</tr>
<tr>
<td></td>
<td>3. Prof. Competence</td>
</tr>
<tr>
<td>b. Summarize and compare information requirements for various types of</td>
<td>2. Crit. Thinking</td>
</tr>
<tr>
<td>decision making and planning strategies</td>
<td>3. Prof. Competence</td>
</tr>
<tr>
<td>c. Evaluate the impact of information technology on society</td>
<td>2. Crit. Thinking</td>
</tr>
<tr>
<td></td>
<td>3. Prof. Competence</td>
</tr>
<tr>
<td>d. Dissect foundations of information systems to the demands of electronic</td>
<td>2. Crit. Thinking</td>
</tr>
<tr>
<td>commerce, connectivity, and networked economy</td>
<td>3. Prof. Competence</td>
</tr>
<tr>
<td>e. Recommend technology solutions to specific electronic system</td>
<td>1. Communication</td>
</tr>
<tr>
<td>implementations</td>
<td>2. Crit. Thinking</td>
</tr>
<tr>
<td></td>
<td>3. Prof. Competence</td>
</tr>
<tr>
<td>f. Exhibit examples of most current developments in specific electronic system</td>
<td>1. Communication</td>
</tr>
<tr>
<td>implementations</td>
<td>2. Crit. Thinking</td>
</tr>
<tr>
<td></td>
<td>3. Prof. Competence</td>
</tr>
</tbody>
</table>
K. **TEXTS:**

L. **REFERENCES:** N/A

M. **EQUIPMENT:** computer classroom

N. **GRADING METHOD:** A-F

O. **MEASUREMENT CRITERIA/METHODS:**
- Exams
- Quizzes
- Group Projects

P. **DETAILED TOPICAL OUTLINE:**

I. IT in the Organization
   A. Strategic Use of Information Technology in the Digital Economy
   B. Information Technologies: Concepts and Management

II. The Web Revolution
   A. Network Computing, Discovery, Communication, and Collaboration
   B. E-Business and E-commerce
   C. Mobile, Wireless, and Pervasive Computing Environments

III. Organizational Applications
   A. Transaction Processing, Functional Applications, CRM, and Integration
   B. Enterprise Systems
   C. Global Interorganizational Systems

IV. Managerial and Decision Support Systems
   A. Knowledge Management
   B. Data Management
   C. Decision Support and Intelligent Systems

V. Implementing and Managing IT
   A. Using IT to Achieve Competitive Advantage
   B. Information Technology Economics
   C. Building Information Systems
   D. Managing Information Resources and IT Security
   E. The Impacts of IT on Organizations, Individuals, and Society

Q. **LABORATORY OUTLINE:** N/A